Resource Management System Alternatives

							June 2002
RMS #1 Template Label:	Crop, 0-2%, SWP Drained	State:	ОНЮ	MLR	A / CRA: Statewide		Page 1 of 3
RMS #1 Name/Phrase:	RMS #1 High Treatment						Location Area
Present Land Use:	Cropland	Planned Land Use:		(Cropland	Statewide	
Planned Practices	Benchmark Description			Planned System Description and How Practice Support the Syste			
Conservation Crop Rotation -	The cropland is used for corn, soybean, ar	nd occasior	nal small grain	1	The rotation will be changed to a	corn-sovbear	n-wheat rotation to address the soil crusting
Cover & Green Manure Crop -	production. Mulch till is used, but leaves v			ter	and soybean disease concerns. A	A green man	ure crop will be seeded following wheat
Filter Strip - 393A	planting (<10%). Soybean cyst nematode			as well a	harvest. The cropland will be tile	drained. Soi	il test will be taken on a regular basis and
Nutrient Management - 590	phytophthora for soybean production. Soi						yields. Pesticide use will move towards
Pest Management - 595	losses, Soil crusting is a concern. Soils a						icides. A filter strip will be established
	contributes to delayed field operations and						y. A combination of mulch tillage and no
Residue Management, No-till &	application rates are not based on current						,
Subsurface Drain - 606	pesticide concerns in the watershed.				19		
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Resource Concerns	Benchmark Effects			Planne	d System Effects		Impact of Planned System
Soil Condition; Tilth, Crusting,	Crusting soils impact crop emergence and	water	The rotation,	cover cro	o, and drainage will improve tilth.	Soil condition	on index increases from 0.1 to 0.38
	infiltration.				-		
Water Quantity, Subsurface;	Extended periods of saturated soils delay	field	The tile drain	nage will re	move excess subsurface water.	Yields will in	ncrease 25-30%.
Excess Water	operations and impact crop yields.						
Water Quality, Surface Water;	High N, P2O5, atrazine levels are detected	d in the	Nutrient and	Pest Mgt.,	Residue Mgt., rotation, and filter	BMPs will a	chieve the water quality goals.
	surface water.		strip will imp				
Plants, Cropland Productivity	Crop yields are reduced due to wet soils a	nd surface	Improved tilt	h and drair	nage will improve crop yields.	Yields will ir	ncrease 25-30%.
	crusting.						
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Resource Management System Alternatives

RMS #2 Template Label:	Crop, 0-2%, SWP Drained	State: OHIO	MLR	A / CRA: Statewide		Page 2 of 3
RMS #2Name/Phrase:	RMS#2 Moderate Treatment	•				Location Area
Present Land Use:	Cropland Planned Land Use:			Cropland	Statewide	
Planned Practices	Benchmark Description		Planned System Descrip	otion and	How Practice Support the System	
Conservation Crop Rotation -	The cropland is used for corn, soybean, and			The rotation will be changed to a	corn-soybe	an-wheat rotation to address the soil crusting
Nutrient Management - 590	production. Mulch till is used, but leaves ver					nd will be tile drained. Soil test will be taken
Pest Management - 595	planting (<10%). Soybean cyst nematode is	s becoming a proble	em as well a			soil test results and crop yields. Pesticide
	phytophthora for soybean production. Soil e					and safer pre-plant pesticides. A
Residue Management, No-till &	losses, Soil crusting is a concern. Soils are			combination of mulch tillage and	no tillage wi	II be implemented.
Subsurface Drain - 606	contributes to delayed field operations and re					
0	application rates are not based on current so	oil tests. There are	nutrient and			
0	pesticide concerns in the watershed.					
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Resource Concerns	Benchmark Effects			d System Effects		Impact of Planned System
Soil Condition; Tilth, Crusting,	Crusting soils impact crop emergence and w	vater The rotati	The rotation and drainage will improve tilth.		Soil condit	ion index increases from 0.1 to 0.38
	infiltration.					
Water Quantity, Subsurface;	Extended periods of saturated soils delay fie	eld The tile d	The tile drainage will remove excess subsurface water.		Yields will	increase 25-30%.
Excess Water	operations and impact crop yields.					
	High N, P2O5, atrazine levels are detected i		Nutrient and Pest Mgt., Residue Mgt. and rotation will		BMPs will	meet the water quality goals.
Pesticides, Nutrients, Organics,	surface water.		improve WQ.			
Plants, Cropland Productivity	Crop yields are reduced due to wet soils and	d surface Improved	Improved tilth and drainage will improve crop yields.		Yields will	increase 25-30%.
	crusting.					
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RMS #3 Template Label:	Crop, 0-2%, SWP Drained St	tate:	MLRA / CRA:		Page 3 of 3	
RMS #3 Name/Phrase:	RMS #3 Low Treatment		·		Location Area	
Present Land Use:	Cropland	Use:	Cropland	Statewide		
Planned Practices	Benchmark Descrip	Planned System Desc	Planned System Description and How Practice Support the System			
Conservation Crop Rotation -	The cropland is used for corn, soybean, and occ		The rotation will be changed to a corn-soybean-wheat rotation to address the soil crusting			
Nutrient Management - 590	production. Mulch till is used, but leaves very lo	ow residue levels after	and soybean disease concern	s. The cropland	will be surface drained. Soil test will be	
Pest Management - 595	planting (<10%). Soybean cyst nematode is be				per soil test results and crop yields.	
	phytophthora for soybean production. Soil eros				olication and safer pre-plant pesticides. A	
0	losses, Soil crusting is a concern. Soils are soll contributes to delayed field operations and reduction rates are not based on current soil to pesticide concerns in the watershed.	ced yields. Fertilizer		ntains at least 30	% residue levels will be implemented.	
0 0 0	Danish mark Effects		Name of Contract Office to		June 24 of Diament Contain	
Resource Concerns Soil Condition: Tilth, Crusting.	Benchmark Effects Crusting soils impact crop emergence and wate		Planned System Effects The rotation and drainage will improve tilth.		Impact of Planned System on index increases from 0.1 to 0.38	
Infiltration, Organic Matter	infiltration.	i The rotation and	The rotation and drainage will improve tilth.		of files fileses from 0.1 to 0.36	
Water Quantity, Subsurface;	Extended periods of saturated soils delay field	The tile drainage	The tile drainage will remove excess subsurface water.		ncrease about 10%.	
Excess Water	operations and impact crop yields.					
	High N, P2O5, atrazine levels are detected in th		Nutrient and Pest Mgt., Residue Mgt.and rotation will		ninimumly achieve the water quality goals.	
	surface water.		improve WQ.			
Plants, Cropland Productivity	Crop yields are reduced due to wet soils and su crusting.	Irface Improved tilth ar	Improved tilth and drainage will improve crop yields.		ncrease about 10%.	
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